## IN THE CLAIMS:

Please cancel claims 1, 20-28, 33, 35, 36.

Please amend the following claims:

In claim 2, line 1, replace "A method as in claim 1" with -The method as recited in claim 37-

In claim 3, line 1, replace "A method as in claim 1" with -The method as recited in claim 37-.

In claim 4, line 1, replace "A method as in claim 1" with -The method as recited in claim 37-

In claim 5, line 1, replace "A method as in claim 1" with -The method as recited in claim 37...

In claim 6, line 1, replace "A method as in claim 1" with -The method as recited in claim 37-.

In claim 8, line 1, replace "A method as in claim 1" with -The method as recited in claim 37-

In claim 9, line 1, replace "A method as in claim 1" with -The method as recited in claim 37-.

In claim 10, line 1, replace "A method as in claim 1" with -The method as recited in claim 37-. 10

In claim  $\mathcal{M}$ , line 1, replace "A method as in claim 1" with -The method as recited in claim 37-4

In claim 12, line 1, replace "A method as in claim 1" with –The method as recited in claim 37-

In claim 1/3, line 1, replace "A method as in" with -The method as recited in- !

In claim 14, line 1, replace "A method as in" with -The method as recited in-. "

In claim 14, line 1, replace "A method as in claim 1" with -The method as recited in claim 37.

In claim 16, line 1, replace "A method as in" with -The method as recited in-. 14

In claim 17, line 1, replace "A method as in claim 1" with -The method as recited in claim 37.7.

In claim 18, line 1, replace "A method as in" with -The method as recited in-. 16

In claim 19, line 1, replace "A method as in" with -The method as recited in-. 16

- 29. (Amended) A method for [cleaning a wafer surface and the like and] removing [contaminant] particles [therefrom] <u>from a surface of a substrate</u>, comprising the steps of:
- a) applying a film of sacrificial material to the [wafer] surface:[,]
- b) locating said [contaminant] particles on said [wafer] surface and recording [the] coordinates of each particle [in a record,]: and
- c) [providing laser means adapted for selectively exposing said wafer surface to laser light] shining light at said coordinates [of each particle, and
- selectively exposing said film and said wafer surface to light from said laser] to selectively remove particles whose coordinates were recorded [in said record].
- 30. [A] The method as <u>recited</u> in claim 29, further comprising the step of [:e) providing a flow of an inert gas across said [wafer] <u>surface</u> while performing said [selectively exposing step (d)] <u>shining step (c)</u>.
- 31. [A] The method as recited in claim 29, further comprising the step of [:f)] comparing said coordinates recorded in locating step (b) with device design data for identifying particles causing defects critical to device operation.
- 32. [A] The method as recited in claim 31 wherein said [laser] light is selectively applied only at said coordinates of said defects critical to device operation and expected to affect device yield.
- 34. An [improved semiconductor wafer processing] apparatus [for cleaning a wafer surface and the like and removing contaminant particles therefrom, said apparatus] comprising:
  - [a) a first station including means] an apply tool for applying a layer of sacrificial material to [said wafer] a substrate surface[,];
  - [b) a second station including means for a measuring tool for locating [said contaminant] particles on said [wafer] surface and recording [the] coordinates of [each particle] said particles [in a record and means for transmitting said record,]; and
  - [c) a third station including
    - i) means for receiving said record from said second station,
    - ii) laser means adapted for] a light for selectively exposing said [wafer] surface [to laser light] at said recorded coordinates [of each particle according to said record, and
    - iii) means for providing a flow of vapor or gas across said wafer surface].

## Please add the following new claims:

- 37. A method of processing a substrate comprising the steps of:
  - a) providing a substrate comprising patterns for electronic circuitry;

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- b) providing a liquid film on the substrate and drying solvent in the liquid to provide a dried unpatterned sacrificial film on the substrate;
- c) transferring energy to physically remove said dried unpatterned sacrificial film from the substrate, wherein removing said film facilitates cleaning particles from the substrate.
- 38. The method as recited in claim 37, wherein said dried material comprises an organic material.
- 39. The method as recited in claim 38, wherein said dried organic material comprises resist or collodion.
- 40. The method as recited in claim 37, wherein said transferring energy step (c) comprises irradiating said film with light.
- 41. The method as recited in claim 40, wherein said irradiating said film with light step comprises shining a laser on said film
- 42. The method as recited in claim 41, wherein said laser comprises pulsed UV laser.
- 43. The method as recited in claim 37, further comprising the step of measuring particles on the substrate before said step (b) of applying said sacrificial film.
- 44. The method as recited in claim 43, wherein said measurement step (a) comprises computer software defect classification.
- 45. The method as recited in claim 44, wherein said measurement step (a) comprises auto defect classification.
- 46. The method as recited in claim 43, wherein said measurement provides type, composition, density, or position of particles on the substrate.
- 47. The method as recited in claim 46, wherein said composition measurement comprises analyzing exhaust gas after cleaning particles from the substrate.

- 48. The method as recited in claim 46, wherein said composition measurement comprises x-ray dispersive spectroscopy of particles on the substrate.
- 49. The method as recited in claim 43, further comprising the step of selecting a parameter of said providing step (b) or of said transferring energy step (c) based on data from said measuring particles on the substrate step.
- 50. The method as recited in claim 49, wherein said selecting a parameter step comprises selecting a parameter based on type of particle or composition of particle.
- 51. The method as recited in claim 50, wherein said selecting a parameter step comprises selecting a wavelength that is higher than that required to break bonds.
- 52. The method as recited in claim 43, wherein said measurement step comprises providing a map of particles on the substrate.
- 53. The method as recited in claim 43, wherein said transferring energy step (c) comprises aiming a beam at locations found in said measuring step.
- 54. The method as recited in claim 53, wherein said beam comprises a laser beam and wherein said method further comprises the step of selecting a recipe of said laser cleaning step based on data from said measuring particles on the substrate step.
- 55. The method as recited in claim 54, wherein said method further comprises the step of setting said laser with a generic recipe for cleaning major defects found in said measuring step.
- 56. The method as recited in claim 54, wherein said recipe is selected for each specific type of particle characterized in said measuring step and wherein said selective laser cleaning is directed to locations on the wafer where specific particles are actually located as determined in said measuring step.
- 57. The method as recited in claim 43, further comprising the step of storing said measurement in a data record for the substrate.
- 58. The method as recited in claim 43, further comprising the step of providing a second measurement of particles on the substrate after said cleaning step (c).
- 59. The method as recited in claim 58, further comprising the step of providing a second cleaning step if particles are found in said second measurement step.
- 60. The method as recited in claim 37, wherein in said providing a substrate step (a) said substrate is provided after a step in a process flow of fabricating the electronic

circuitry on the substrate but before other fabrication steps are complete.

- 61. The method as recited in claim 37, wherein said transferring energy step (c) comprises an area cleaning.
- 62. The method as recited in claim 61, wherein said area cleaning is proved by providing a laser beam and scanning said laser beam or by scanning said substrate with respect to said laser beam.
- 63. The method as recited in claim 37, wherein the substrate comprises a semiconductor wafer or a mask.

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